

PRECISION ENVIRONMENTAL SERVICES, INC.

BULK ANALYSIS REPORT

Page #: 2

Client: Alaskan Copper Works

Report #: 796230

Project: 3200-Asbestos %
P.O. #:

Report Date: 7-22-96

Date Analyzed: 7-19-96

Client/Lab Number	Sample Location & Description	Asbestos Type / %	Other Material
796230 M53956	Dk. brown floor tile with black mastic.	Chrysotile 5-10% (tile)	cellulose (3-5%) synthetics (2-5%) mineral aggregate binder, adhesive

BULK SAMPLE ANALYSIS REPORT

CLIENT: Alaskan Copper Works
628 Hanford St.
Seattle, WA 98134

REPORT #: 796230
REPORT DATE: 7-22-96

PROJECT: 3200-Asbestos %
P.O. #:

DATE RECEIVED: 7-19-96

DATE ANALYZED: 7-19-96

PAGE: 1 of 2

Attached are the results of analysis of 1 bulk sample submitted for asbestos identification, Lab ID #796230.

The sample was analyzed in accordance with method EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Samples".

The sample was initially examined under a Nikon SMZ - 2T stereoscopic microscope at a magnification of 10X to 60X. Fibrous material was examined for morphology and content.

Representative fibers from each sample were immersed in a fluid with a known refractive index. The specimens were examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, sign of elongation and refractive indices.

Separate layers of inhomogeneous samples are analyzed and reported separately. Unless otherwise stated, samples were quantified by calibrated visual estimation (CVES).

The samples analyzed in this report were provided by third parties not subject to control by PRECISION ENVIRONMENTAL SERVICES (PES). Consequently, the results presented represent microscopic examinations in PES laboratory facilities and PES makes no representation as to sample collection techniques or procedures. Test results pertain only to the samples submitted for analysis.

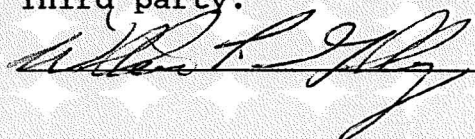
This report can not be represented by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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Analyst - William F. Golloway

Samples Collected by - Third party.

Reports Reviewed by -
(Approved Signatory)



PRECISION ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

Save Samples*? Yes X No _____

LAB ID #: _____

SAMPLES SUBMITTED BY:

Company name: ALASKAN Copper Works
Address: 628 Hawland St
City, State, Zip: Seattle WA 98134
Phone: (206) 382-8379 Fax: (206) 382-4309
Contact: GERALD A. Thompson
Job Name: 3200 Asbestos %
Job Number: _____

SAMPLE

NUMBER

M53956

SAMPLE

DESCRIPTION

Floor Tiles Possible Asbestos
(3200)

SAMPLE TYPE

AIR _____

BULK _____

ANALYSIS REQUESTED

Phase Contrast Microscopy _____

Polarized Light Microscopy _____

Other _____

TURN AROUND TIME

RUSH _____

24 HOUR _____

3-5 WORKING DAYS _____

OTHER (SPECIFY DATE) _____

Please Fax Results

RELINQUISHED BY: [Signature]

DATE: 7-19-96

TIME: 11:00

RECEIVED BY: [Signature]

DATE: 7/19/96

TIME: 11:00

Relinquished To Alaska Copper Works By [Signature] 7-24-96 8:50

Received by [Signature] 7/24/96 8:50

* NOTE: UNLESS OTHERWISE REQUESTED SAMPLES WILL BE ARCHIVED FOR 90 DAYS.

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